## Analysis of Food Dyes Peer Grading Rubric

Whose lab report are you grading? \_\_\_\_\_

Grader's Name \_\_\_\_\_ Date \_\_\_\_\_ Períod \_\_\_\_\_

\*\*\*Take off at least one point for each box that is not checked in the table below.

	Requirements	Earned	Possible	Comments	
		Points	<u>Points</u>		
Heading					
	Date of experiment		7		
	Lab partner(s)		3		
	Experiment Title				
Pre-Lab					
	Purpose				
Ba	ackground Knowledge (3 pts)				
	Graph of Absorbance vs. Concentration (-1/2 if no title)				
	Sample calculation using "y = mx + b" for best fit line				
	Blue Dye 1 is the only colored ingredient; expt. Is valid				
Ma	ateríals				
	Bulleted list		10		
	Accurate				
	fety				
	Comprehensive				
Protocol					
	Imperative				
	detailed enough to follow				
	numbered steps				
Data					
	Spectrophotometry Data Table (-1/2 point if no title)				
	% Transmittance		4		
	Transmittance				
	Absorbance (-log T)				
Data Processing					
	ntration of FD&C Blue 1 Dye				
	y = mx + b				
	Substitution				
	Boxed answer with $\mu$ M units				
Mass o	of FD&C Blue 1 dye		6		
	Shows all work				
	Boxed answer with mg units				
	All calculations are clearly labeled and easy to understand				

Mrs. Nielsen AP				
Discussion Questions				
	Complete Sentences			
	Correct Spelling and Grammar			
	#1) % T = 3.2 %, little light transmitted = greater error		6	
	#2) CuSO <sub>4</sub> + 4 NH <sub>3</sub> → [Cu(NH <sub>3</sub> ) <sub>4</sub> ]SO <sub>4</sub>		0	
	#3) $\Lambda_{max}$ for [Cu(NH_3)+] $^{2+}$ (yellow-green) less than $\Lambda_{max}$ for			
	$[Cu(H_2O)_6]^{2+} (red-orange)$			
	#4) Zn ions have filled d subshells, no empty d orbitals for e-			
Conclusion and Evaluation				
	Complete sentences			
	Correct spelling and grammar			
Paragraph 1:			6	
	What is the purpose?		0	
	Calibration Curve provides equation for relating Abs and []			
	Explanation of Beer's Law as applied to this lab			
	How could the results be improved?			
Presentation				
	Well-organized, sections clearly labeled			
	Neat, legible writing			
	Table of contents includes information		7	
	Page numbers included			
	Lab is written in ink			
	Errors properly crossed out, no white out			
	Writes on one side of the page only			

Total points earned: \_\_\_\_\_/ 42

Write two things the student did well in this lab report:

- .
- .

Write two things that the student could do to improve the lab report:

• .